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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>			
<u>L7</u>	L6 and L5	13	<u>L7</u>
<u>L6</u>	ausubel.in.	127	<u>L6</u>
<u>L5</u>	L4 and pathogens	1310	<u>L5</u>
<u>L4</u>	L3 and (gram positive)	1940	<u>L4</u>
<u>L3</u>	L2 and (vector)	2235	<u>L3</u>
<u>L2</u>	L1 and (DNA encoding protein)	5362	<u>L2</u>
<u>L1</u>	enterococcus faecalis	10642	<u>L1</u>

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NEWS 3 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 4 OCT 03 MATHDI removed from STN
NEWS 5 OCT 04 CA/Capplus-Canadian Intellectual Property Office (CIPO) added
to core patent offices
NEWS 6 OCT 13 New CAS Information Use Policies Effective October 17, 2005
NEWS 7 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download
of Capplus documents for use in third-party analysis and
visualization tools
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NEWS 9 OCT 27 DIOGENES content streamlined
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spectral property data
NEWS 13 DEC 05 CASREACT(R) - Over 10 million reactions available
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NEWS 15 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS 16 DEC 14 CA/Capplus to be enhanced with updated IPC codes
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NEWS 18 DEC 21 IPC search and display fields enhanced in CA/Capplus with the
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NEWS EXPRESS DECEMBER 02 CURRENT VERSION FOR WINDOWS IS V8.01,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 02 DECEMBER 2005.
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E1	1	AUSUBEL S J/AU
E2	1	AUSUBEL SETH/AU
E3	0 -->	AUSUBEL, F/AU
E4	1	AUSUBEU F/AU
E5	1	AUSUM H/AU
E6	1	AUSUM J D/AU
E7	1	AUSUNIO M/AU
E8	1	AUSVALD E Y A/AU
E9	1	AUSWEGER J/AU
E10	1	AUSWINPORN S/AU
E11	5	AUSWINPORN SOMSRI/AU
E12	1	AUSYAVICHY V V/AU

=> s enterococcus faecalis

L1 52041 ENTEROCOCCUS FAECALIS

=> s l1 and (DNA)

L2 11338 L1 AND (DNA)

=> s l2 and (encoding protein)

3 FILES SEARCHED...

L3 12 L2 AND (ENCODING PROTEIN)

=> d l3 ti abs ibib tot

L3 ANSWER 1 OF 12 MEDLINE on STN

TI Streptococcus pyogenes protein F promotes invasion of HeLa cells.

AB Although the Gram-positive bacterium Streptococcus pyogenes (group A streptococcus) has been considered an extracellular pathogen which adheres to human mucosal epithelium, the streptococcus possesses invasive capacity for cultured human epithelial cells. This study provides genetic and functional evidence supporting the conclusion that protein F is capable of

mediating entry of *S. pyogenes* into HeLa cells. Using Tn916 insertion mutagenesis or an isogenic *S. pyogenes* strain with a defined mutation in the gene **encoding protein F** (prtF), it was observed that the invasive capacity was affected by the levels of surface-exposed protein F, but not by those of M protein. In addition, heterologous expression of protein F on **Enterococcus faecalis** conferred upon the bacteria an efficient invasive phenotype. Several assays demonstrated that both the fibronectin-binding domains of protein F, UR and RD2, were involved in host-cell invasion. In addition, coinfection experiments of HeLa cells with *S. pyogenes* and an *Escherichia coli* K-12 strain expressing an afimbrial adhesin AFA-I showed that the uptake of *S. pyogenes* did not permit internalization of the *E. coli* cells.

ACCESSION NUMBER: 1999061200 MEDLINE
DOCUMENT NUMBER: PubMed ID: 9846743
TITLE: Streptococcus pyogenes protein F promotes invasion of HeLa cells.
AUTHOR: Okada N; Tatsuno I; Hanski E; Caparon M; Sasakawa C
CORPORATE SOURCE: Department of Bacteriology, Institute of Medical Science, University of Tokyo, Japan.. okadan@platinum.pharm.kitasato-u.ac.jp
SOURCE: Microbiology (Reading, England), (1998 Nov) 144 (Pt 11) 3079-86.
Journal code: 9430468. ISSN: 1350-0872.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199904
ENTRY DATE: Entered STN: 19990413
Last Updated on STN: 19990413
Entered Medline: 19990401

L3 ANSWER 2 OF 12 MEDLINE on STN

TI Expression of protein F, the fibronectin-binding protein of *Streptococcus pyogenes* JRS4, in heterologous streptococcal and enterococcal strains promotes their adherence to respiratory epithelial cells.

AB In a previous study we reported the identification of protein F, a fibronectin-binding protein that was essential to the ability of *Streptococcus pyogenes* JRS4 to adhere to respiratory epithelial cells (E. Hanski and M. Caparon, Proc. Natl. Acad. Sci. USA, 89:6172-6176, 1992). To further evaluate the role of protein F in the adherence of the group A streptococci, we screened other group A streptococcal strains, including six recent clinical isolates, and one strain of **Enterococcus faecalis** for their capacity to bind fibronectin and for the presence of the gene **encoding protein F** (prtF). Seven of eight group A streptococcal strains analyzed, including all recent clinical isolates, both bound fibronectin at high affinity and contained **DNA** sequences that hybridized with a prtF-specific probe. One group A streptococcal isolate and the strain of *E. faecalis* examined neither contained a prtF-related gene nor bound fibronectin. These two strains also could not efficiently adhere to respiratory epithelial cells. However, upon the introduction of the cloned prtF gene, both of these strains gained the capacity to bind fibronectin and to adhere to respiratory epithelial cells. These results suggest that protein F is an important adhesin, which may have a general role in the virulence of the group A streptococci.

ACCESSION NUMBER: 93084359 MEDLINE
DOCUMENT NUMBER: PubMed ID: 1452345
TITLE: Expression of protein F, the fibronectin-binding protein of *Streptococcus pyogenes* JRS4, in heterologous streptococcal and enterococcal strains promotes their adherence to respiratory epithelial cells.
AUTHOR: Hanski E; Horwitz P A; Caparon M G

CORPORATE SOURCE: Department of Molecular Microbiology, Washington University
School of Medicine, St. Louis, Missouri 63110-1093.
SOURCE: Infection and immunity, (1992 Dec) 60 (12) 5119-25.
Journal code: 0246127. ISSN: 0019-9567.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199301
ENTRY DATE: Entered STN: 19930129
Last Updated on STN: 19930129
Entered Medline: 19930104

L3 ANSWER 3 OF 12 USPATFULL on STN

TI Whole cell engineering by mutagenizing a substantial portion of a
starting genome combining mutations and optionally repeating
AB This invention relates to the field of cellular and whole organism
engineering. Specifically, this invention relates to a cellular
transformation, directed evolution, and screening method for creating
novel transgenic organisms having desirable properties. Thus in one
aspect, this invention relates to a method of generating a transgenic
organism, such as a microbe or a plant, having a plurality of traits
that are differentially activatable.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:144275 USPATFULL
TITLE: Whole cell engineering by mutagenizing a substantial
portion of a starting genome combining mutations and
optionally repeating
INVENTOR(S): Short, Jay M, Rancho Santa Fe, CA, UNITED STATES
Fu, Pengcheng, Lowrey Avenue, HI, UNITED STATES
Wei, Jing, San Diego, CA, UNITED STATES
Levin, Michael, San Diego, CA, UNITED STATES
Latterich, Martin, Montellano Terrace, San Diego, CA,
UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005124010	A1	20050609
APPLICATION INFO.:	US 2003-398271	A1	20011001 (10)
	WO 2001-US31004		20011001

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-9677584	20000930
	US 2003-279702P	20010328 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FISH & RICHARDSON, PC, 12390 EL CAMINO REAL, SAN DIEGO, CA, 92130-2081, US	
NUMBER OF CLAIMS:	179	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	31 Drawing Page(s)	
LINE COUNT:	31291	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 12 USPATFULL on STN

TI Staphylococcus aureus polynucleotides and polypeptides
AB The present invention relates to novel genes from S. aureus and the
polypeptides they encode. Also provided are vectors, host cells,
antibodies and recombinant methods for producing the same. The invention
further relates to screening methods for identifying agonists and
antagonists of S. aureus polypeptide activity. The invention

additionally relates to diagnostic methods for detecting Staphylococcus nucleic acids, polypeptides and antibodies in a biological sample. The present invention further relates to novel vaccines for the prevention or attenuation of infection by Staphylococcus.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:124208 USPATFULL
TITLE: Staphylococcus aureus polynucleotides and polypeptides
INVENTOR(S): Choi, Gil H., Rockville, MD, UNITED STATES
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005106597	A1	20050519
APPLICATION INFO.:	US 2004-929429	A1	20040831 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-925637, filed on 10 Aug 2001, GRANTED, Pat. No. US 6833253 Continuation-in-part of Ser. No. US 1997-956171, filed on 20 Oct 1997, GRANTED, Pat. No. US 6593114 Continuation-in-part of Ser. No. US 1997-781986, filed on 3 Jan 1997, GRANTED, Pat. No. US 6737248 Continuation-in-part of Ser. No. WO 2000-US23773, filed on 31 Aug 2000, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-9861P	19960105 (60)
	US 1999-151933P	19990901 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, INTELLECTUAL PROPERTY DEPT., 14200 SHADY GROVE ROAD, ROCKVILLE, MD, 20850, US	
NUMBER OF CLAIMS:	96	
EXEMPLARY CLAIM:	1	
LINE COUNT:	9946	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 12 USPATFULL on STN

TI 37 staphylococcus aureus genes and polypeptides
AB The present invention relates to novel genes from S. aureus and the polypeptides they encode. Also provided as are vectors, host cells, antibodies and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of S. aureus polypeptide activity. The invention additionally relates to diagnostic methods for detecting Staphylococcus nucleic acids, polypeptides and antibodies in a biological sample. The present invention further relates to novel vaccines for the prevention or attenuation of infection by Staphylococcus.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:107602 USPATFULL
TITLE: 37 staphylococcus aureus genes and polypeptides
INVENTOR(S): Choi, Gil H., Rockville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004082002	A1	20040429
APPLICATION INFO.:	US 2003-712713	A1	20031114 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2002-84205, filed on 28 Feb 2002, PENDING Continuation-in-part of Ser. No. WO 2000-US23773, filed on 31 Aug 2000, PENDING		

NUMBER	DATE
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PRIORITY INFORMATION: US 1999-151933P 19990901 (60)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 14200 SHADY GROVE ROAD,
 ROCKVILLE, MD, 20850
 NUMBER OF CLAIMS: 21
 EXEMPLARY CLAIM: 1
 LINE COUNT: 9875
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 12 USPATFULL on STN

TI Whole cell engineering by mutagenizing a substantial portion of a
 starting genome, combining mutations, and optionally repeating
 AB An invention comprising cellular transformation, directed evolution, and
 screening methods for creating novel transgenic organisms having
 desirable properties. Thus in one aspect, this invention relates to a
 method of generating a transgenic organism, such as a microbe or a
 plant, having a plurality of traits that are differentially activatable.
 Also, a method of retooling genes and gene pathways by the introduction
 of regulatory sequences, such as promoters, that are operable in an
 intended host, thus conferring operability to a novel gene pathway when
 it is introduced into an intended host. For example a novel man-made
 gene pathway, generated based on microbially-derived progenitor
 templates, that is operable in a plant cell. Furthermore, a method of
 generating novel host organisms having increased expression of desirable
 traits, recombinant genes, and gene products.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:101228 USPATFULL
 TITLE: Whole cell engineering by mutagenizing a substantial
 portion of a starting genome, combining mutations, and
 optionally repeating
 INVENTOR(S): Short, Jay M., Rancho Santa Fe, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004077090	A1	20040422
APPLICATION INFO.:	US 2003-383798	A1	20030306 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-677584, filed on 30 Sep 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-594459, filed on 14 Jun 2000, GRANTED, Pat. No. US 6605449 Continuation-in-part of Ser. No. US 2000-522289, filed on 9 Mar 2000, GRANTED, Pat. No. US 6358709 Continuation-in-part of Ser. No. US 2000-498557, filed on 4 Feb 2000, PENDING Continuation-in-part of Ser. No. US 2000-495052, filed on 31 Jan 2000, GRANTED, Pat. No. US 6479258		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-156815P	19990929 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HALE AND DORR LLP, 300 PARK AVENUE, NEW YORK, NY, 10022	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	28 Drawing Page(s)	
LINE COUNT:	37121	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L3 ANSWER 7 OF 12 USPATFULL on STN

TI Method of preventing T cell-mediated responses by the use of the major

histocompatibility complex class II analog protein (map protein) from Staphylococcus aureus

AB A method of immunomodulating the T cell response in Staphylococcal bacteria is provided wherein an effective amount of the Map protein from Staphylococcus aureus is administered to a host to prevent or suppress the T cell response. The present method may be utilized with either the Map protein or an effective subdomain or fragment thereof such as the Map 10 or Map 19 protein. The present invention is advantageous in that suppression or prevention of the T cell response in a host can prevent or ameliorate a wide variety of the pathogenic conditions such as T cell lymphoproliferative disease and toxic shock syndrome wherein the overstimulation of T cells needs to be suppressed or modulated.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:158951 USPATFULL

TITLE: Method of preventing T cell-mediated responses by the use of the major histocompatibility complex class II analog protein (map protein) from Staphylococcus aureus

INVENTOR(S): Brown, Eric, Houston, TX, UNITED STATES
Lee, Lawrence, Houston, TX, UNITED STATES
Hook, Magnus, Houston, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003108564	A1	20030612
APPLICATION INFO.:	US 2002-41775	A1	20020110 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-260523P	20010110 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	LARSON & TAYLOR, PLC, 1199 NORTH FAIRFAX STREET, SUITE 900, ALEXANDRIA, VA, 22314	
NUMBER OF CLAIMS:	16	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Page(s)	
LINE COUNT:	1439	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 8 OF 12 USPATFULL on STN

TI 37 staphylococcus aureus genes and polypeptides

AB The present invention relates to novel genes from S. aureus and the polypeptides they encode. Also provided as are vectors, host cells, antibodies and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of S. aureus polypeptide activity. The invention additionally relates to diagnostic methods for detecting Staphylococcus nucleic acids, polypeptides and antibodies in a biological sample. The present invention further relates to novel vaccines for the prevention or attenuation of infection by Staphylococcus.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:71363 USPATFULL

TITLE: 37 staphylococcus aureus genes and polypeptides

INVENTOR(S): Choi, Gil H., Rockville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003049648	A1	20030313
APPLICATION INFO.:	US 2002-84205	A1	20020228 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 2000-US23773, filed on 31 Aug 2000, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-151933P	19990901 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850	
NUMBER OF CLAIMS:	21	
EXEMPLARY CLAIM:	1	
LINE COUNT:	9769	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L3 ANSWER 9 OF 12 USPATFULL on STN

TI Staphylococcus aureus polynucleotides and polypeptides

AB The present invention relates to novel genes from S. aureus and the polypeptides they encode. Also provided are vectors, host cells, antibodies and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of S. aureus polypeptide activity. The invention additionally relates to diagnostic methods for detecting Staphylococcus nucleic acids, polypeptides and antibodies in a biological sample. The present invention further relates to novel vaccines for the prevention or attenuation of infection by Staphylococcus.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:192264 USPATFULL

TITLE: Staphylococcus aureus polynucleotides and polypeptides

INVENTOR(S): Choi, Gil H., Rockville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002103338	A1	20020801
	US 6833253	B2	20041221
APPLICATION INFO.:	US 2001-925637	A1	20010810 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 2000-US23773, filed on 31 Aug 2000, UNKNOWN Continuation-in-part of Ser. No. US 1997-781986, filed on 3 Jan 1997, PENDING Continuation-in-part of Ser. No. US 1997-956171, filed on 20 Oct 1997, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-151933P	19990901 (60)
	US 1996-9861P	19960105 (60)
	US 1996-9861P	19960105 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850	
NUMBER OF CLAIMS:	96	
EXEMPLARY CLAIM:	1	
LINE COUNT:	9945	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L3 ANSWER 10 OF 12 USPATFULL on STN

TI Virulence-encoding DNA sequences of Streptococcus suis and related products and methods

AB The invention provides DNA sequences which code for polypeptides which are characteristic for the virulence of the pathogenic bacterium Streptococcus suis and parts thereof, and polypeptides and antibodies derived therefrom. The sequences code for a polypeptide of 90,000-120,000 daltons or a polypeptide of higher

molecular weight containing such a polypeptide, and for a polypeptide of 135,000-136,000 daltons (muramidase released protein), or parts thereof. The sequences themselves, and also the polypeptides and antibodies derived therefrom, are used for diagnosis of and protection against infection by *S. suis* in mammals, including man.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 97:20384 USPATFULL
 TITLE: Virulence-encoding **DNA** sequences of
 Streptococcus suis and related products and methods
 INVENTOR(S): Smith, Hilda E., Cz Lelystad, Netherlands
 Vecht, Uri, As Ermelo, Netherlands
 PATENT ASSIGNEE(S): Centraal Diergeneeskundig Instituut, PH Lelystad,
 Netherlands (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5610011		19970311
	WO 9216630		19920110
APPLICATION INFO.:	US 1993-119125		19930920 (8)
	WO 1992-NL54		19920319
			19930920 PCT 371 date
			19930920 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	NL 1991-510	19910321
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Campell, Bruce R.	
LEGAL REPRESENTATIVE:	Handal & Morofsky	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	18 Drawing Figure(s); 13 Drawing Page(s)	
LINE COUNT:	2515	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 11 OF 12 EMBASE COPYRIGHT (c) 2005 Elsevier B.V. All rights reserved on STN

TI Expression of protein F, the fibronectin-binding protein of *Streptococcus pyogenes* JRS4, in heterologous streptococcal and enterococcal strains promotes their adherence to respiratory epithelial cells.

AB In a previous study we reported the identification of protein F, a fibronectin-binding protein that was essential to the ability of *Streptococcus pyogenes* JRS4 to adhere to respiratory epithelial cells (E. Hanski and M. Caparon, Proc. Natl. Acad. Sci. USA, 89:6172-6176, 1992). To further evaluate the role of protein F in the adherence of the group A streptococci, we screened other group A streptococcal strains, including six recent clinical isolates, and one strain of ***Enterococcus faecalis*** for their capacity to bind fibronectin and for the presence of the gene **encoding protein F (prtF)**. Seven of eight group A streptococcal strains analyzed, including all recent clinical isolates, both bound fibronectin at high affinity and contained **DNA** sequences that hybridized with a prtF-specific probe. One group A streptococcal isolate and the strain of *E. faecalis* examined neither contained a prtF-related gene nor bound fibronectin. These two strains also could not efficiently adhere to respiratory epithelial cells. However, upon the introduction of the cloned prtF gene, both of these strains gained the capacity to bind fibronectin and to adhere to respiratory epithelial cells. These results suggest that protein F is an important adhesin, which may have a general role in the virulence of the group A streptococci.

ACCESSION NUMBER: 92359609 EMBASE

DOCUMENT NUMBER: 1992359609
TITLE: Expression of protein F, the fibronectin-binding protein of Streptococcus pyogenes JRS4, in heterologous streptococcal and enterococcal strains promotes their adherence to respiratory epithelial cells.
AUTHOR: Hanski E.; Horwitz P.A.; Caparon M.G.
CORPORATE SOURCE: Department of Molecular Microbiology, Washington Univ. School of Medicine, St. Louis, MO 63110-1093, United States
SOURCE: Infection and Immunity, (1992) Vol. 60, No. 12, pp. 5119-5125.
ISSN: 0019-9567 CODEN: INFIBR
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 004 Microbiology
LANGUAGE: English
SUMMARY LANGUAGE: English
ENTRY DATE: Entered STN: 921227
Last Updated on STN: 921227

L3 ANSWER 12 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Expression of protein F, the fibronectin-binding protein of Streptococcus pyogenes JRS4, in heterologous streptococcal and enterococcal strains promotes their adherence to respiratory epithelial cells.

AB In a previous study we reported the identification of protein F, a fibronectin-binding protein that was essential to the ability of Streptococcus pyogenes JRS4 to adhere to respiratory epithelial cells (E. Hanski and M. Caparon, Proc. Natl. Acad. Sci. USA, 89:6172-6176, 1992). To further evaluate the role of protein F in the adherence of the group A streptococci, we screened other group A streptococcal strains, including six recent clinical isolates, and one strain of **Enterococcus faecalis** for their capacity to bind fibronectin and for the presence of the gene **encoding protein F (prtF)**. Seven of eight group A streptococcal strains analyzed, including all recent clinical isolates, both bound fibronectin at high affinity and contained **DNA** sequences that hybridized with a prtF-specific probe. One group A streptococcal isolate and the strain of E. faecalis examined neither contained a prtT-related gene nor bound fibronectin. These two strains also could not efficiently adhere to respiratory epithelial cells. However, upon the introduction of the cloned prtF gene, both of these strains gained the capacity to bind fibronectin and to adhere to respiratory epithelial cells. These results suggest that protein F is an important adhesin, which may have a general role in the virulence of the group A streptococci.

ACCESSION NUMBER: 1993:96279 BIOSIS
DOCUMENT NUMBER: PREV199395051475
TITLE: Expression of protein F, the fibronectin-binding protein of Streptococcus pyogenes JRS4, in heterologous streptococcal and enterococcal strains promotes their adherence to respiratory epithelial cells.
AUTHOR(S): Hanski, Emanuel; Horwitz, Phillip A.; Caparon, Michael G. [Reprint author]
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